

DATE: January 24, 1984
TO: File
FROM: Paul Hess
SUBJECT: Indiana/R05-8307-04-085
Gary/Gary Development, Inc. - On-site Inspection

Attached is an on-site inspection report (Form 2070-13), a site sketch, a partial topographic map, an aerial reproduction, and ground level photos. The above items were produced as a result of the on-site inspection conducted by FIT on December 27 and 28, 1983. During this inspection, the FIT collected three (3) sets of low concentration water samples. Two (2) of these sets were obtained from on-site monitoring wells (No. 1 and 2), and the third set was taken from the west side drainage ditch (see site sketch).

The Gary Development, Inc. facility is an active sanitary landfill that is operating under Indiana State Board of Health Permit Number 45-2. This facility was constructed in an abandoned, water filled, sand quarry that lies adjacent to the Grand Calumet River in northeastern Indiana. The current operator of this site obtained a sanitary landfill construction permit, from the state agency that required the dewatering of this quarry, the lining of the sidewalls with clay, the emplacement of two clay barrier walls (west and south), the installation of a leachate collection system, and the emplacement of four perimeter monitoring wells. The construction was completed and passed state inspection before the operator began accepting solid waste for disposal in September, 1974. It should be noted that after the operating permit was issued in 1975, the State Board of Health began questioning the adequacy of the aforementioned systems at this facility.

US EPA RECORDS CENTER REGION 5



416009

*Approved
miv 8/30/89*

The construction of the above systems at this site has created an artificially induced low water table under this site. The water table is depressed about thirty (30) feet. This depression may be causing the surrounding groundwater to seep into this site through the clay liner. This possible seepage along with leachate from disposed waste and precipitation runoff are collected and discharged from the site. Therefore, the leachate collection system maintains this depressed water table. The possibility that hazardous waste deposited at this site might migrate off site via the natural groundwater flow is remote. However, once the facility is closed and the on-site water table is allowed to recover from this negative influence, the question of hazardous waste migration via the groundwater route will have to be reassessed. Therefore, the adequacy of this site's clay liner will have to be evaluated before the site is closed.

The source or sources of any contaminated groundwater found at or near this site becomes a complex problem because there are twelve (12) alleged or known hazardous waste sites within a two (2) mile radius. Five (5) of these sites border the perimeter of this landfill. These sites are Vulcan Material Metal Division surface impoundment (west perimeter), City Service refinery tank bottom dump (northwest perimeter), Conservation Chemical surface impoundments (northeast perimeter), Gary Airport Dump (east perimeter), Grand Calumet River (south perimeter), Cliff Rolland Dump (northeast), 9th Avenue Dump (south), Midco II (south), Midco II (northeast), unnamed dump (adjacent to south side of river), and the City of Gary Landfill (south). See partial topographic map for detailed location.

The liquid waste from the leachate collection system was discharged to the Grand Calumet River for a number of years without an NPDES permit. This practice was stopped by the operator as a result of a 1983 consent decree settlement with the state. Since that settlement,

the operator has been mixing the liquid leachate with lime and fly ash to form a rock like cover material. The lime mix forms a hydrated calcium carbonate that traps the leachate impurities.

Gary Development has petitioned for and received approval from the State Board of Health to accept a number of industrial wastes. Some of these industrial wastes are considered hazardous waste. These industrial wastes contain varying amounts of hazardous compounds. Some of these hazardous compound types are heavy metals, asbestos, inorganic acids and bases, and oils. A list of the waste types and waste quantities is documented in the consent decree settlement between the two parties.

The subject facility is one of three (3) state permitted sanitary landfills in northern Indiana. There are a large number of unpermitted landfills and dumps in this area that do not meet minimum state health requirements. Four (4) of these unpermitted sites lie within two (2) miles of subject facility. They are the Wheeler Landfill, the Samocki Brothers Dump, the Cliff Rolland Dump, and the City of Gary Municipal Dump. The latter dump site meets the fewest minimum state health requirements. This city dump is 100 acres of raw refuse that is reportedly burned three (3) times each year. This site lies in a sand quarry that is neither lined nor covered. The operator of the Gary Development facility complained that because of state agency impropriety, his competitors enjoy a distinct monetary advantage that is slowly forcing him out of business.

A memo summarizing the results of the water samples collected at this site is forthcoming.

Note: Gary Development, Inc. has requested a copy of the report.

PH:4M



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE IN 02 SITE NUMBER D077-005916

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) GARY DEVELOPMENT LANDFILL
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 479 N. CLINE (CLINE & GARY AVES.)
03 CITY GARY
04 STATE IN 05 ZIP CODE 46406 06 COUNTY LAKE 07 COUNTY CODE 89 08 CONG DIST 1
09 COORDINATES
LATITUDE 41°36'15.0" LONGITUDE 087°25'30.0"
10 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 12.27.83
MONTH DAY YEAR
02 SITE STATUS
☒ ACTIVE ☐ INACTIVE
03 YEARS OF OPERATION
SEPT 1974 BEGINNING YEAR ENDING YEAR
04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☒ B. EPA CONTRACTOR FIT (E+E, INC.) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR
☐ E. STATE ☐ F. STATE CONTRACTOR ☐ G. OTHER

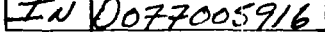
05 CHIEF INSPECTOR PAUL HESS 06 TITLE TEAM LEADER 07 ORGANIZATION E+E, INC. 08 TELEPHONE NO. (312) 663-9415
09 OTHER INSPECTORS
JOHN ANGELO 10 TITLE TEAM MEMBER 11 ORGANIZATION " 12 TELEPHONE NO. () "
DAN COZZA 10 TITLE " 11 ORGANIZATION " 12 TELEPHONE NO. () "
ANN SAUBE 10 TITLE " 11 ORGANIZATION " 12 TELEPHONE NO. () "
" 10 TITLE " 11 ORGANIZATION " 12 TELEPHONE NO. () "
" 10 TITLE " 11 ORGANIZATION " 12 TELEPHONE NO. () "

13 SITE REPRESENTATIVES INTERVIEWED LAWRENCE HAGEN 14 TITLE V.P. - GEN. MGR. 15 ADDRESS 479 N. CLINE AVE. 16 TELEPHONE NO. (219) 944-7858
" 14 TITLE " 15 ADDRESS " 16 TELEPHONE NO. ()
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" 14 TITLE " 15 ADDRESS " 16 TELEPHONE NO. ()
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" 14 TITLE " 15 ADDRESS " 16 TELEPHONE NO. ()
" 14 TITLE " 15 ADDRESS " 16 TELEPHONE NO. ()

17 ACCESS GAINED BY (Check one)
☒ PERMISSION ☐ WARRANT
18 TIME OF INSPECTION 1:10 PM
19 WEATHER CONDITIONS OVERCAST, LIGHT WIND, 21°F, SNOW COVER

IV. INFORMATION AVAILABLE FROM

01 CONTACT TOR STALL 02 OF (Agency/ Organization) OFFICE OF SUPERFUND, U.S. EPA 03 TELEPHONE NO. (312) 886-0393
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM PAUL HESS 05 AGENCY FIT 06 ORGANIZATION E+E, INC. 07 TELEPHONE NO. (312) 663-9415 08 DATE 1.6.84
MONTH DAY YEAR



EPA FORM 2070-13 (7-81)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IN 0077005916

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☒ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 1-101 04 NARRATIVE DESCRIPTION

GROUNDWATER CONTAMINATION IS ALLEGED BY ISBH MONITORING WELL TESTS. SITE IS SURROUNDED BY OTHER HAZARDOUS WASTE SITES. SURROUNDING GROUND WATER FLOWS TO SITE AND IS PUMPED OUT OF PIT. SITE HAS ARTIFICIALLY LOW WATER TABLE. THERE ARE FEW PRIVATE WELLS IN 3 MILE AREA.

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☒ OBSERVED (DATE: 3/9/76) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

ISBH HAS WITNESSED LEACHATE DISCHARGE FROM PIT SUMP TO GRAND CALUMET RIVER ON A NUMBER OF OCCASIONS.

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

UNKNOWN

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

UNKNOWN

01 ☒ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0-50 04 NARRATIVE DESCRIPTION

LANDFILL HAS WORKMEN ON SITE 24 HOURS PER WEEK FOR MOST OF THE YEAR. HOWEVER, OPERATOR REPORTED BRAKE-INS TO SITE BUILDING SEVERAL TIMES EACH YEAR.

01 ☒ F. CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE: 3/9/76) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: < 20 ACRES (Acres) 04 NARRATIVE DESCRIPTION

ISBH HAS WITNESSED DUMPING OF PAINT AND OIL WASTE AS LIQUID DISCHARGE TO LANDFILL.

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 1-101 04 NARRATIVE DESCRIPTION

WHEN LANDFILL IS FINALLY CLOSED, WATER TABLE WILL RISE TO COVER WASTE AND NORMAL GROUNDWATER FLOW PATTERN WILL BE ESTABLISHED. DISSOLVED TOXIC MATERIAL CAN THEN MOVE OFF SITE.

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

UNKNOWN

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

UNKNOWN



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IN 0077005916

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Unknown

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include name(s) of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Unknown

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Unknown

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Spills, Runoff, Standing liquids, Leaking drums)
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Unknown

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Unknown

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Unknown

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE: 3/9/76)

☐ POTENTIAL

☐ ALLEGED

ISBN WITNESSED DISCHARGE OF LEACHATE COLLECTING SYSTEM TO THE GRAND CALUMET RIVER. OPERATOR DID NOT HAVE NPDES PERMIT FOR THIS WASTE WATER DISCHARGE.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

CONTAMINATED GROUND AND SURFACE WATER FROM A NUMBER OF HAZARDOUS WASTE SITE THAT SURROUND THIS SITE MAY BE DISCHARGING TO THIS SITE.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 0-150

IV. COMMENTS

SITE HAS LEACHATE COLLECTIVE SYSTEM UNDER WASTE AND WALLS OF SITE ARE LINED WITH CLAY. HOWEVER, SITE WILL NOT CREATE POTENTIAL FOR OFF-SITE MIGRATION UNTIL SITE IS CLOSED.

V. SOURCES OF INFORMATION (One specific references, e.g., state files, sample analysis, reports)

FIT SITE INSPECTION AND ISBN FILES.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IN 0077005916

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				FILED RCRA PART A
<input type="checkbox"/> F. SPCC PLAN				
<input checked="" type="checkbox"/> G. STATE (Specify)	OPP #45-2	2/20/75	3/1/84	
<input checked="" type="checkbox"/> H. LOCAL (Specify)	SW #133	6/19/73		
<input checked="" type="checkbox"/> I. OTHER (Specify)				ISBH PERMISSION ON A
<input type="checkbox"/> J. NONE				NUMBER OF INDUSTRIAL

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCENERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input checked="" type="checkbox"/> F. LANDFILL	UNKNOWN		<input type="checkbox"/> F. SOLVENT RECOVERY	06 AREA OF SITE
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	62 (Acres)
<input type="checkbox"/> H. OPEN DUMP			<input checked="" type="checkbox"/> H. OTHER NONE (Specify)	
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS

THIS LANDFILL IS SURROUNDED BY FIVE HAZARDOUS WASTE SITES. VALCAN (METAL DIV.) HAS TWO SURFACE IMPOUNDMENTS ON THE WEST SIDE OF SITE. CITY SERVICE DISTILLATION PLANT HAS DISPOSED OF PETROLEUM BOTTOMS AT A SITE NORTHWEST OF LANDFILL. CONSERVATION CHEM. PLANT POND ARE LOCATED NORTHEAST OF SITE. GRAND CALUMET RIVER (HIGHLY CONTAMINATED) IS LOCATED TO THE SOUTH OF SITE.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

THIS FORMER SAND PIT WAS CONVERTED TO A LANDFILL BY FIRST DEWATERING THE PIT. THEN THE SIDE WALLS WERE LINED WITH CLAY. THE SOUTH WALL ADJACENT TO GRAND CALUMET RIVER WAS TO HAVE A 10 FOOT BARRIER WALL CONSTRUCTED. INFILTRATION STILL OCCURS FROM SIDE WALLS.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

SITE IS MONITORED BY 24 HOUR WORKMEN. HOWEVER, TRESPASSERS STILL FIND THEIR WAY ONTO SITE. SITE IS NOT FENCED.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

FIT SITE INSPECTION AND ISBH FILES



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IN D077005916

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY
(Check as applicable)

SURFACE WELL
COMMUNITY A. ☒ B. ☐
NON-COMMUNITY C. ☐ D. ☒

02 STATUS

ENDANGERED AFFECTED MONITORED
A. ☐ B. ☐ C. ☐
D. ☐ E. ☐ F. ☐

03 DISTANCE TO SITE

A. 26 (mi)
B. ON-SITE (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)
☒ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 1-102

03 DISTANCE TO NEAREST DRINKING WATER WELL (mi)

04 DEPTH TO GROUNDWATER

45 (ft)

05 DIRECTION OF GROUNDWATER FLOW

SOUTHWEST

06 DEPTH TO AQUIFER OF CONCERN

45 (ft)

07 POTENTIAL YIELD OF AQUIFER

UNKNOWN (gpd)

08 SOLE SOURCE AQUIFER

☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

THIS AREA HAS VERY FEW PRIVATE DRINKING WATER WELLS. AREA IS MOSTLY INDUSTRIAL USAGE. THE ON-SITE WELL IS 365 FT. DEEP AND IN AN AQUIFER SEPARATED BY 65 FT. OF NATURAL CLAY. WELL IS NOT IN AQUIFER OF CONCERN.

10 RECHARGE AREA

☐ YES COMMENTS
☒ NO

11 DISCHARGE AREA

☒ YES COMMENTS THE SURROUNDING GROUNDWATER FLOWS TO SITE AND ITS SUMP.
☐ NO

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE
☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES
☐ C. COMMERCIAL, INDUSTRIAL
☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:

AFFECTED

DISTANCE TO SITE

GRAND CALUMET RIVER (RECREATION)
LAKE MICHIGAN (DRINKING WATER)

☒

☐

☐

< 50 FT.

26

(mi)

(mi)

(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE

TWO (2) MILES OF SITE

THREE (3) MILES OF SITE

A. NO OF PERSONS

B. NO OF PERSONS

C. NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION

> 1/2 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

04 DISTANCE TO NEAREST OFF-SITE BUILDING

500 FT (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural village, densely populated urban area)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE IN 02 SITE NUMBER D077005916

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☒ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☒ A. IMPERMEABLE (Less than 10^{-8} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

65 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

UNKNOWN (ft)

05 SOIL pH

6.0 TO 7.0

06 NET PRECIPITATION

4 (in)

07 ONE YEAR 24 HOUR RAINFALL

2 (in)

08 SLOPE
SITE SLOPE

30 %

DIRECTION OF SITE SLOPE

ALL SIDES

TERRAIN AVERAGE SLOPE

< 3 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

A. NONE (mi)

OTHER

B. < 1/2 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

NONE (mi)

ENDANGERED SPECIES: NONE

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS, NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. 500 FEET

B. < 1/2 (mi)

C. NONE (mi)

D. > 6 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

THIS SITE WAS A 42 ACRE SAND MINE THAT WAS 30 TO 40 FEET DEEP WHEN IT WAS ABANDONED. THE BOTTOM OF THIS PIT IS 65 FT. OF NATURAL CLAY. THE SURROUNDING TOPOGRAPHY IS RELATIVELY FLAT AND HEAVILY FILLED. THE WHOLE SOUTHERN COST OF LAKE MICHIGAN AT ONE TIME WAS FLAT SWAMP LAND, THAT HAS A VERY SANDY TOP SOIL. THE LANDFILL IS DOMED TO THE SOUTH SIDE OF PIT ABOUT 50 FEET ABOVE THE SURROUNDING AREA. THE NORTH END OF PIT IS STILL OPEN. THE GRAND CALUMET RIVER RUNS ALONG THE SOUTH BOUNDARY OF SITE. THE NORTHERN AREA OF INDIANA IS VERY HEAVY INDUSTRY.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

FIIT SITE INSPECTION AND ISBA FILES



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IN 0077005916

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	<u>TWO</u>	<u>AQUATECH AND CHEMTECH</u>	<u>6 WEEKS</u>
SURFACE WATER	<u>ONE</u>	<u>" " "</u>	<u>6 WEEKS</u>
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
	<u>NONE - THE WEATHER CONDITIONS WERE TOO COLD AND THE GROUND SURFACE WAS COVERED WITH SNOW.</u>

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>U.S. EPA, OFFICE OF SUPERFUND</u> <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS <u>ATTACHED TO COVER MEMO</u>

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

NONE

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

FI SITE INSPECTION



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IN 0077005916

II. CURRENT OWNER(S)

PARENT COMPANY (If applicable)

01 NAME GARY DEVELOPMENT, INC.			02 D+B NUMBER			08 NAME			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 479 N. CLINE AVE.			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY GARY			06 STATE IN			07 ZIP CODE 46406			12 CITY			13 STATE			14 ZIP CODE		
01 NAME			02 D+B NUMBER			08 NAME			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		
01 NAME			02 D+B NUMBER			08 NAME			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		
01 NAME			02 D+B NUMBER			08 NAME			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		
01 NAME			02 D+B NUMBER			08 NAME			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		

III. PREVIOUS OWNER(S) (List most recent first)

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME NONE			02 D+B NUMBER			01 NAME ROCK ROAD CONSTRUCTION Co.			02 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			03 STREET ADDRESS (P.O. Box, RFD #, etc.) 5915 N. ROGERS AVE.			04 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			05 CITY CHICAGO			06 STATE ILL.			07 ZIP CODE		
01 NAME			02 D+B NUMBER			01 NAME			02 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			05 CITY			06 STATE			07 ZIP CODE		
01 NAME			02 D+B NUMBER			01 NAME			02 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			05 CITY			06 STATE			07 ZIP CODE		

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

ISBN FILES



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IN 0077005916

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (If applicable)

01 NAME GARY DEVELOPMENT, INC		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 479 N. CLINE AVE.		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY GARY		06 STATE IN	07 ZIP CODE 46406	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER					

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

01 NAME NONE		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

LAWRENCE HAGEN



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IN *0077005916*

II. ON-SITE GENERATOR

01 NAME <i>NONE</i>	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE

III. OFF-SITE GENERATOR(S) *SEE ATTACHED LIST*

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S) *SEE ATTACHED LIST*

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

ISBA FILES



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IN 0077005916

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ F. WASTE REPACKAGED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☒ H. ON SITE BURIAL

02 DATE

03 AGENCY

04 DESCRIPTION ISBH GRANTED SPECIAL APPROVAL TO SITE OPERATOR
TO BURY A NUMBER OF INDUSTRIAL (HAZARDOUS) WASTES.

01 ☐ I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ L. ENCAPSULATION
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☒ N. CUTOFF WALLS
04 DESCRIPTION

02 DATE

03 AGENCY

1973 ISBH
SEE CONSTRUCTION PERMIT AND FILE

01 ☒ O. EMERGENCY DIKING/SURFACE WATER DIVERSION
04 DESCRIPTION

02 DATE

03 AGENCY

1983 ISBH
EXTENSION TO 1973 CONSTRUCTION PERMIT

01 ☐ P. CUTOFF TRENCHES/SUMP
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☒ Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

02 DATE

03 AGENCY

1973 ISBH
SEE CONSTRUCTION PERMIT AND FILE



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IN 0077005916

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☒ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE 1983

03 AGENCY ISDH

CONSENT DECREE BETWEEN ISDH AND OPERATOR

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE

03 AGENCY

NA

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

ISDH FILES



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IN 007700594

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

1983 CONSENT DECREE

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

ISBH FILES

ATTACHMENT I
GENERATORS

Jones and Laughlin Steel Company, East Chicago
Union Carbide, East Chicago
American Maize Products Company
American Chemical Service
E. I. DuPont
U. S. Reduction
Youngstown Sheet and Tube, East Chicago
U. S. Steel
Calumet Waste Systems
Vulcan Materials Company Company, Gary
Energy Cooperative, Inc., East Chicago
Industrial Rubbish Removal
U. S. S. Lead Refinery, Inc.
C. F. Petroleum
Lever Brothers Company
Conservation Chemical Company
Industrial Disposal
General Drainage
Calumet Wastes, Inc.
Independent Waste
City of Hammond
Amoco Oil Company, Whiting
Standard Steel Speciality Company, Hammond
Cities Services Refinery, Gary
Former Ashland Chemical Plant, Hammond
Borg - Warner, Bellwood, Illinois
Georgia Pacific
Shell Oil Refinery
Brandenberg Demolition

ATTACHMENT I
TRANSPORTERS

Indiana Waste Systems, Inc.

City of Hammond

Industrial Disposal Corporation, East Chicago

Calumet Wastes, Inc., Hammond

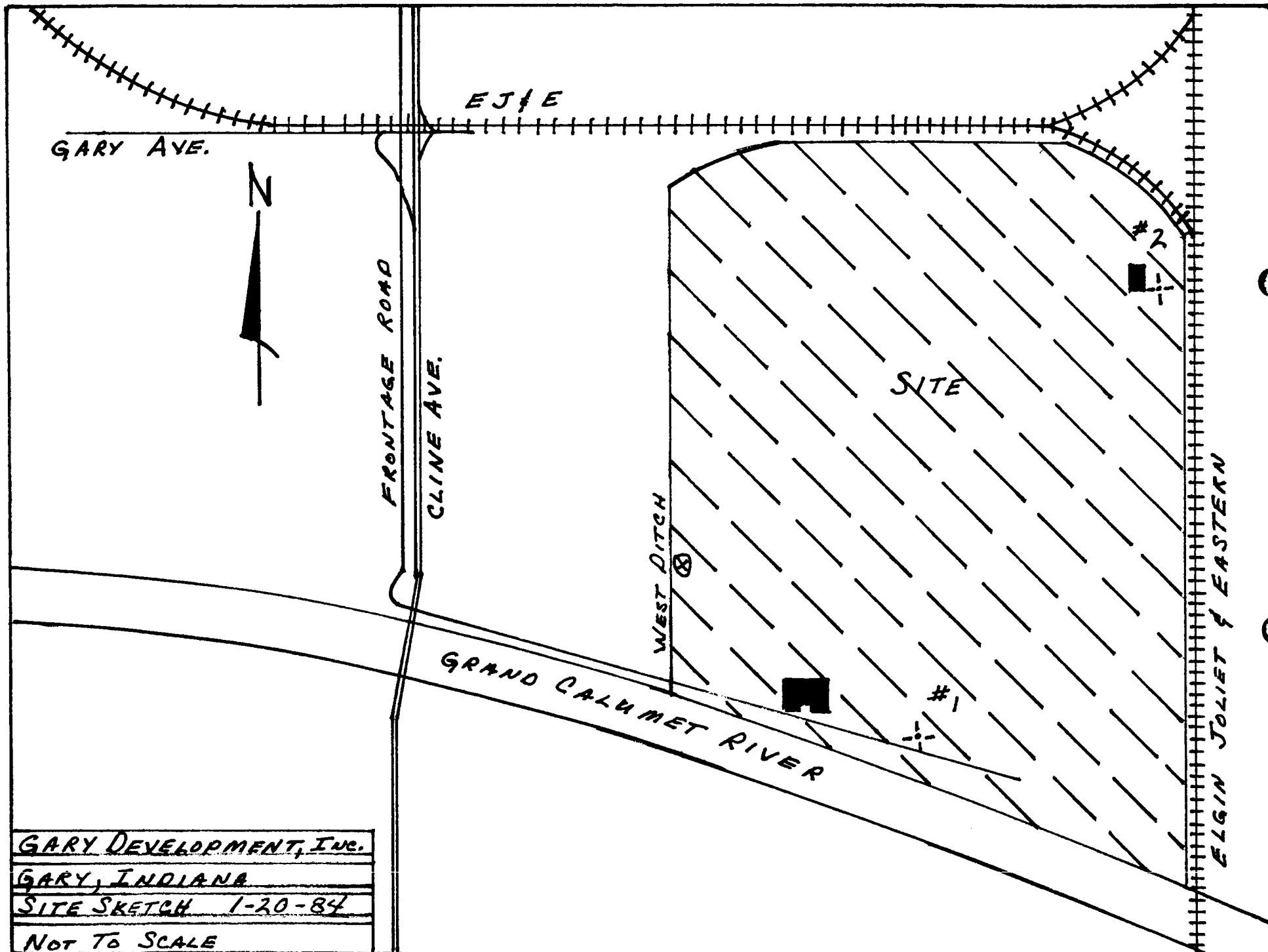
Independt Wastes

General Drainage

Lender Industries

Liquid Dynamics

Correct Maintenance



GARY TOPO MAP (PORTION)

